| Electronic Patent Application Fee Transmittal |   |          |          |        |                         |  |  |
|---|---|----------|----------|--------|-------------------------|--|--|
| Application Number:                           | 09885375  |          |          |        |                         |  |  |
| Filing Date:                                  | 19-Jun-2001   |          |          |        |                         |  |  |
| Title of Invention:                           | EFFICIENT CHANNEL ESTIMATION IN A DIGITAL COMMUNICATIONS SYSTEM |          |          |        |                         |  |  |
| First Named Inventor/Applicant Name:          | Shousheng He  |          |          |        |                         |  |  |
| Filer:  | Steven Ware Smith/Pamela J Shultz                               |          |          |        |                         |  |  |
| Attorney Docket Number:                       | P13536-US1  |          |          |        |                         |  |  |
| Filed as Large Entity                         |   |          |          |        |                         |  |  |
| Utility Filing Fees                           |   |          |          |        |                         |  |  |
| Description                                   |   | Fee Code | Quantity | Amount | Sub-Total in<br>USD(\$) |  |  |
| Basic Filing:                                 |   |          |          |        |                         |  |  |
| Pages:  |   |          |          |        |                         |  |  |
| Claims:                                       |   |          |          |        |                         |  |  |
| Miscellaneous-Filing:                         |   |          |          |        |                         |  |  |
| Petition:                                     |   |          |          |        |                         |  |  |
| Patent-Appeals-and-Interference:              |   |          |          |        |                         |  |  |
| Post-Allowance-and-Post-Issuance:             |   |          |          |        |                         |  |  |
| Certificate of correction                     |   | 1811     | 1        | 100    | 100                     |  |  |
| Extension-of-Time:                            |   |          |          |        |                         |  |  |

| Description    | Fee Code          | Quantity | Amount | Sub-Total in<br>USD(\$) |
|----------------|-------------------|----------|--------|-------------------------|
| Miscellaneous: |                   |          |        |                         |
|                | Total in USD (\$) |          |        | 100                     |